



PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Aging Days	Past Due	Total
PO039318	MEC002-VU	6	1	Net 30	M7075T6S.160	7075-T6 Sheet .160 : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive sf				48	4/4/2018	48	S057742	Stock	4/3/2018	\$ 13.73 / sf	0	\$65		

Plex 4/3/2018 1:18 PM Dart.Dubois.Pascal



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER PO039318

**Supplier:** MEC002-VU  
Metaux Castle  
P.O. Box 4090 Stn A  
Toronto  
ON  
M5W 0E9 Canada

**PO No:** PO039318

**PO Date:** 3/14/18

**Due Date:** 4/4/18

**Purchase Order  
Revision:**

**Revision Date:**

**Ship-To Contact:**

Lavoie, Chantal

Phone: clavoie@dartaero.ca



MAR 14 2018

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**Via:** Ground

**Pymt Terms:** Net 30

**Freight Terms:**

**Special Comments:**

## Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	M7075T6S0.375X5.000	M7075T6S0.375	Firmed X 5.000 : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	4/4/18	12 ft	0 ft	12 ft	\$18.10/ft	\$217.20	
2	M7075T6S6.000X0.250	7075-T6S Sheet	Firmed 6" Thick Plate X 0.25" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	4/4/18	12 ft	0 ft	12 ft	\$20.75/ft	\$249.00	
3	M7075T6S1.750X4.500	M7075T6 Sheet	Firmed 1.750 Thick X 4.500 Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	4/4/18	12 ft	0 ft	12 ft	\$48.90/ft	\$586.80	

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MAR 29 2018

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MAR 29 2018

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## PURCHASE ORDER

Items											
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price	
4	M7075T6S1.000X7.000	7075-T6 Sheet	Firmed	4/4/18	12 ft	0 ft	12 ft	\$30.45/ft	\$365.40		
		1" Thick Plate X					12				
		7" Wide									
		: MATERIAL:									
		7075-T6/T62									
		ALUMINUM									
		SHEET AS PER									
		QQ-A-250/12									
		OR AMS-QQ-A-									
		250/12 OR AMS									
		4045 OR ASTM									
		B209									
		receive ft									
5	M7075T6S1.250X7.000	7075-T6 Sheet	Firmed	4/4/18	33.333 ft	0 ft	33 ft	\$44.65/ft	\$1,488.32		
		1.25" X 7.000"				33					
		Order Pre Cut									
		To 50.00"									
		: MATERIAL:									
		7075-T6/T62									
		ALUMINUM									
		SHEET AS PER									
		QQ-A-250/12									
		OR AMS-QQ-A-									
		250/12 OR AMS									
		4045 OR ASTM									
		B209									
		receive ft									
Line Item Note 8 pcs cut at 50" = 33.333 ft											
6	M7075T6S.160	7075-T6 Sheet	Firmed	4/4/18	48 sf	0 sf	48 sf	\$13.729166/sf	\$659.00		
		.160				48					
		: MATERIAL:									
		7075-T6/T62									
		ALUMINUM									
		SHEET AS PER									
		QQ-A-250/12									
		OR AMS-QQ-A-									
		250/12 OR AMS									
		4045 OR ASTM									
		B209									
		receive sf									
Grand Total: \$3,565.72											

## Order Notes

## Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 3/14/18 1:32 PM dart.lavoie.chantal

INTERORG TRANSFER  
PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

Page 1 of 1

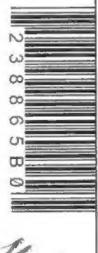
Shipment No:3546819

Ship From:	Sold To:	Ship To:	Deliver To:
A. M. CASTLE & CO. 14001 ORANGE AVENUE PARAMOUNT, CA 90723 USA	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA

Date Shipped	F.O.B.	Freight Terms	Carrier	BOL No
21-MAR-18	ORIGIN	Prepaid	ARCBEST	3546819-2

Shipment Details

Final Destination Branch - TOR

Order No	Line No	Item No	Description				
5077183	5	771809.MO	0.1600.SH.7075.T6.ALUMINUM.BARE.MRS.48.0000.144.0000 - PROTECTIVE VINYL COATING SPECIFICATIONS: AMS-QQ-A-250/12				
Purchase Order No	Part Number	Ordered Qty	Invoice Qty				
39318		1.00 PCS	1.00 PCS				
Details			ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S Email P/s and certs to: clavoile@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS				
Delivery No.	Mill/Source	Heat Number	Mech Id	PCS	Width (IN)	Length (IN)	Shipped Qty(LBS)
121695803				1			111.6980

These items are controlled by the U.S. Government and authorized for export only to the country of ultimate destination for use by the ultimate consignee or end-user(s) herein identified. They may not be resold, transferred, or otherwise disposed of to any other country or to any person other than the authorized ultimate consignee or end-user(s), either in their original form or after being incorporated into other items, without first obtaining approval from the U.S. Government or as otherwise authorized by U.S. law and regulations.

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size or material cut by the customer cannot be returned for credit.

Reviewed by Authorized Castle Metals Representative:



Date:

Name:

Date Printed: 21-MAR-2018 04:17:14 PM

1-261A

SHIP TO:  
A M CASTLE & CO  
14001 ORANGE AVE  
P.O. BOX 1402  
PARAMOUNT, CA 90723

SOLD TO:  
AM CASTLE & CO- SOLD TO  
1420 KENSINGTON RD  
SUITE 220  
OAK BROOK, IL 60523

**KAISER**  
**ALUMINUM**

Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4488309

CUSTOMER PO NUMBER:	WORK PACKAGE:	CUSTOMER PART NUMBER:	SHIP RUN/LOAD:	GOV'T CONTRACT NUMBER:	
440463-1		771809	104118/12		
KAISER ORDER NO:	SHIP DATE:	ALLOY:	CLAD:	TEMPER:	PRODUCT DESCRIPTION:
1244918-1	3-DEC-2017	7075	BARE	T6	MRS Quality
WEIGHT SHIPPED:	QUANTITY:	TRUCK B/L #:	GAUGE:	DIAMETER/WIDTH:	LENGTH:
6163 LB	55 PCS EST.	2070530	0.1600 IN (4.0640 MM)	48.000 IN (1219.2 MM)	144.000 IN (3657.6 MM)

MHU 2172386: LOT 706595B6: 30 pieces;

MHU 2172545: LOT 238865B0: 25 pieces;

### Certified Specifications

299-947-157/RevE  
ASTM B 209/Rev14

AMS 4045/RevL  
BATS 2505/RevNC

AMS-QQ-A-250/12/RevA  
DMS 2174/RevB

Test Code: 4292  
Lot: 238865B0 Cast 555

Test Results  
Drop 35 Ingot 5

Melted In USA

(ASTM E8/B557)  
(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T6	LT / 2 (Min:Max)	84.5 : 84.8 (583 : 585)	73.6 : 74.0 (507 : 510)	12.3 : 12.7

MRS Deflection : 0.078 IN

(ASTM E1251)

Chemistry:	Si	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.08	0.18	1.4	0.03	2.5	0.20	5.7	0.02	0.01	0.01	TOT 0.03
Lot: 706595B6	Cast 555			Drop 35		Ingot 5					Melted in USA

(ASTM E8/B557)  
(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	T6	LT / 2 (Min:Max)	83.8 : 84.2 (578 : 581)	73.0 : 76.5 (503 : 527)	12.6 : 12.7

MRS Deflection : 0.011 IN

(ASTM E1251)

Chemistry:	Si	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual(wt%)	0.08	0.18	1.4	0.03	2.5	0.20	6.7	0.02	0.01	0.01	TOT 0.03





Trentwood Works - Spokane, WA 99215  
Phone: (800) 367-2586

## CERTIFIED TEST REPORT

Serial Number  
4488309

### ALLOY LIMITS

	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
7075												
MIN(wt%)	0.00	0.00	1.2	0.00	2.1	0.18	5.1	0.00	0.00	0.00	EACH	0.05
MAX(wt%)	0.40	0.50	2.0	0.30	2.9	0.28	6.1	0.20	0.05	0.05	TOT	0.15

Aluminum Remainder

### ORDER COMMENTS

AMC A97075-173 R 5

### TEST NOTES

MATERIAL MEETS MINIMUM RESIDUAL STRESS (MRS) / CHEMICAL MILLING QUALITY (CMQ) REQUIREMENTS.

### CERTIFICATION

Kaiser Aluminum, Trentwood Works, is ISO 9001, AS9100, and ISO 14001 certified, and hereby certifies that all material shipped under this order:

- has been inspected, tested, and found to be in conformance with the requirements of the specifications indicated herein.
- All test equipment and measuring devices are calibrated and certified in accordance applicable specifications. For material thicknesses outside specification limits, mechanical properties are as shown herein and chemical composition meets specification requirements. Reported elongation values have been measured as elongation at fracture.
- was melted in the United States of America or a qualifying country per DFARS 225.872-1(a), was manufactured in the United States of America, and meets the requirements of DFARS 252.225 for domestic content.
- has been thermally processed in compliance with AMS 2772, where applicable.
- is mercury free, within the limits of detection of ASTM E1215 (<1ppm).
- is in compliance with RoHS 2, European Union Directive 2011/65/EU.
- is in compliance with European Chemical Agency, ECHA, REACH regulations, (EC) No 1907/2006, and Kaiser regularly monitors these regulations for updates.
- is free of Conflict Minerals, as defined in Section 15.2 of the Dodd-Frank Act.
- is free of weld repair.
- meets the reporting requirements of EN10204, Type 3.1.

Any warranty is limited to that shown on Kaiser Aluminum's standard general terms and conditions of sale. Test reports are on file, subject to examination. Test reports shall not be reproduced except in full, without the written approval of the Kaiser Aluminum laboratory. The recording of false, fictitious or fraudulent statements or entries on the certificate may be punished as a felony under federal law.

JAMES HEMENWAY, TECHNICAL PROCESS MANAGER

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M7075765-160  
 DATE: APR 03 2018

PO / BATCH NO.: 039318/5052742

MATERIAL CERT REC'D: YES  
 QUANTITY RECEIVED: 48P<sup>1/2</sup>  
 QUANTITY INSPECTED: 48P<sup>1/2</sup>  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: .160  
 THICKNESS RECEIVED: .160  
 SHEET SIZE ORDERED: 4X12  
 SHEET SIZE RECEIVED: 4X12

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>QQ-A-250/12</u>
CORRECT THICKNESS	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	<u>Heat # 238865130</u>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u> DATE: <u>9-89 APR 03 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

## SPECIFICATION CONTROL DRAWING

△ PURCHASE MATERIAL: 7075-T6/T62/T651 ALUMINUM SHEET OR PLATE

SPECIFICATION: QQ-A-250/12 OR AMS-QQ-A-250/12  
OR AMS 4045  
OR ASTM B209

OR

△ PURCHASE MATERIAL: 7075-T6/T62/T651 ALCLAD ALUMINUM SHEET OR PLATE

SPECIFICATION: QQ-A-250/13 OR AMS-QQ-A-250/13  
OR AMS 4048 / 4049  
OR ASTM B209

△ PART NUMBER:

M7075T6S|TTT|X|W|WWW|  
THK|WIDTH|

WHERE "TTT" = THICKNESS (IN INCHES)  
AND "W|WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M7075T6S.063

EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

.TTT BY 4FT BY 10FT FOR SHEET

△

△ PREFERRED SIZE:

WHERE "TTT" = THICKNESS (IN INCHES)  
AND "W|WWW" = WIDTH (IN INCHES, OPTIONAL, FOR SPECIFYING CUT PLATE)

EG. 0.063" THICK SHEET = M7075T6S.063

EG. 3.5" WIDE BY 0.500" THICK PLATE = M7075T6S.500X3.500

.TTT BY 4FT BY 10FT FOR SHEET

△

△

RELEASED

2017 JUN 19 ✓  
ECN 1-574

APPROVED

DATE 17.05.05

B	ADD. REF TO "PLATE" "T651" TEMPER, AMS 4048, OPTIONAL WIDTH DIM (CAR16-149)	CP	17.05.05
A	NEW ISSUE	RF	10.11.08
REV.	DESCRIPTION	BY	DATE
DESIGN	RF	DART AEROSPACE LTD	
DRAWN	CP	HAWKESBURY, ONTARIO, CANADA	
CHECKED	ML	DRAWING NO.	REV. B
MFG. APPR.	LL	M7075T6S	SHEET 1 OF 1
APPROVED	WM	TITLE	SCALE
DE APPR.	DS	7075-T6 SHEET/PLATE SPEC	NTS
DATE	17.05.05		

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